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REMARKS

Claim 18 is currently amended to specify that the slot in the supporting

surface has an opening, the opening being of sufficient width to receive the adhesive

applicator. Basis for this amendment can be found at Figure 5 and it follows from

the description at paragraph [0033]: the applicator is "between the support

surfaces" and "the nozzle 23a of the glue applicator 23 is positioned to apply cold

glue along the inside of the fold line of the sheet 2." As the inside of the fold line is

above the supporting surface, the nozzle must either extend through or be

extendable through the slot when glue is applied.

Cracknell does not disclose use of an adhesive applicator in any way. Misicka

discloses an applicator that is arranged to apply glue from above as the signatures

are carried by a chain conveyor. The previously-presented version of claim 18

explicitly stated that the supporting surface included a slot to separate the support

surfaces. Misicka does not disclose a slot, as claimed. In fact, Misicka states at

column 6, lines 64 to 66 that "each link 22 of chain conveyor 20 has sides 23 and 25

which are formed at an angle which, typically, is approximately 60 degrees". As

shown in Figure 2, the sides 23 and 25 of links 22 would appear to be almost flush

with the support surfaces such that "signature 17' fully rests along its lower surface

while it is propelled beneath adhesive applicator 37" (column 7, lines 3-6).

The claimed arrangement is more adaptable than that of Misicka. Because

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the support surface of Misicka is essentially solid: "the signature fully rests along

its lower surface", there is no opportunity to apply adhesive from below. By

inclusion of a slot, as required in the claims, the apparatus may be adapted to

deliver adhesive either from above or below. Glue is therefore applied to either the

inside or outside fold line, as required. The flexibility of the present apparatus with

regard to gluing configuration is set out in the published application at paragraphs

[0033] and [0034].

In order to clarify this distinction from Misicka, claim 18 has been amended

to recite the slot more explicitly: the slot is of sufficient size to receive the nozzle of

the adhesive applicator. This enables gluing to be carried out either from above or

from below, this latter case requiring the nozzle to pass through the slot in order to

apply glue to the folded sheets on the supporting surface.

Previous claim 20 has been rewritten as an independent claim, requiring the

supporting surface to have a slot through which the adhesive applicator delivers

adhesive to the inside of the fold line of selected sheets. The Examiner has rejected

this claim as being obvious over Cracknell in view of Misicka and further in view of

Leu (US 5,716,182). Leu shows in Figs 3A – 3D a perforating needle that passes

through a stack of sheets into a pot of adhesive. The adhesive is applied to the

inside of the stack of sheets as the needle is withdrawn. Other embodiments

describe the adhesive applied to the outside fold as the needles pierce the stack. It is

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apparent however that Leu and Misicka have conflicting requirements that cannot

render the combination of their disclosures obvious. As stated above, Misicka

teaches that the sheets should be fully supported as adhesive is applied. Leu on the

other hand does not support the sheets in this manner.

In order to apply adhesive to the inside of a stack of sheets, Leu necessarily

dispenses with the degree of support offered by Misicka and locates a pot of

adhesive in the support. In fact, the pot cannot be located in a supporting surface

that includes two inclined support surfaces separated by a gap. Leu shows that in

order to apply adhesive from below, a flat supporting surface is required (see Fig 3).

As a consequence adhesive is not applied to a folded sheet in any way. It will be

clear to one skilled in the art that the adhesive applicator described in Leu is

incompatible with both the inclined support surfaces and sheet folding apparatus of

the present invention.

In summary therefore, claim 18, as amended, is not obvious in view of

Cracknell and Misicka. The apparatus described in Cracknell makes no provision

for adhesive binding. Misicka does describe a system adapted to apply adhesive but

teaches that, in order to do so, the sheets to which the adhesive is applied must be

fully supported. In order to provide this, a predominantly solid supporting surface is

required, which in turn restricts adhesive application from above the sheets only.

The improved flexibility offered by apparatus in accordance with the present

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invention is neither disclosed nor hinted at in Misicka. With regard to claim 20, one

skilled in the art would simply not seek to combine the disclosures of Cracknell,

Misicka and Leu. Leu and Misicka contain contrary teachings that simply do not

lend themselves to any combination.

Conclusion

In view of the foregoing amendment and remarks, the applicant respectfully

requests allowance of all pending claims, and allowance at an early date would be

appreciated.

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Should the examiner have any questions or comments, the examiner is

invited to contact the undersigned by telephone so that any outstanding issues can

be expeditiously resolved.

Respectfully submitted,

Cracknell et al.

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